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CONTACT INFORMATION

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EDUCATION

Ph.D., Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA, December 2011.

- Dissertation Topic: Nitrous Acid (HONO) Chemistry in the Urban Boundary Layer
- Concentration: Atmospheric Chemistry and Air Pollution
- Advisor: Jochen Stutz

M.S., Atmospheric Sciences, University of California, Los Angeles, CA, December 2007.

B.S., Atmospheric, Oceanic and Environmental Sciences, University of California, Los Angeles, CA, December 2004.

EXPERIENCE

Postdoctoral Researcher, Earth Atmospheric Science Section, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, January 2012—present.

Research Assistant, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA, June 2006 –December 2011.

Professional Trainee, Environmental Consulting Service – Planning and Strategies Group, Southern California Edison, Rosemead, CA, July 2009 – June 2010.

Teaching Associate, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA, October 2006 – March 2008.

Teaching Assistant, Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA, October 2005 – June 2006.

PUBLICATIONS

Fu, D., T.J. Pongetti, J.F.L. Blavier, T.J. Crawford, K.S. Manatt, G.C. Toon, **K.W. Wong**, and S.P. Sander, Near-infrared remote sensing of Los Angeles trace gas distributions from a mountaintop site, *Atmos. Meas. Tech. Discuss.*, 6, 8807–8854, 2013.

Ren, X., D. Duin, M. Cazorla, S. Chen, J. Mao, L. Zhang, W.H. Brune, J.H. Flynn, N. Grossberg, B. Lefer, B. Rappenglück, **K.W. Wong**, C. Tsai, J. Stutz, J.E. Dibb, B.T. Jobson, W. Luke, and P. Kelley, Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas, *J. Geophys. Res.-Atmos.*, 118, 11, 5770-5780, 2013.

Wong, K.W., C. Tsai, B. Lefer, N. Grossberg, and J. Stutz, Modeling of daytime HONO vertical gradients during SHARP 2009, *Atmos. Chem. Phys.*, 13 (7), 3587-3601, 2013.

Stutz, J., **K.W. Wong**, and C. Tsai, Field observations of daytime HONO chemistry and its impact on the OH radical budget, Disposal of Dangerous Chemicals in Urban Areas and Mega Cities, Nato Science for Peace and Security Series C: Environmental Security, Springer Netherlands, 1-14, 2013.

Wong, K.W., C. Tsai, B. Lefer, C. Haman, W. Brune, W. Luke, and J. Stutz, Daytime HONO vertical gradients during SHARP 2009 in Houston, TX, Atmos. Chem. Phys., 12, 635-652, 2012.

Stark, H., S.S. Brown, **K.W. Wong**, J. Stutz, C.D. Elvidge, L.B. Pollack, T.B. Ryerson, W.P. Dube, N.L. Wagner and D.D. Parish, Influence of city light pollution on urban air quality, Nature Geoscience, 4, 730-731, 2011.

Wong, K.W., H.-J. Oh, B. Lefer, B. Rappenglück and J. Stutz, Vertical profiles of nitrous acid in the nocturnal urban atmosphere of Houston, TX, Atmos. Chem. Phys., 11, 3595–3609, 2011.

Wong, K.W. and J. Stutz, Influence of nocturnal vertical stability on daytime chemistry: a one-dimensional model study, Atmos. Environ., 44, 3753-3760, 2010.

Stutz, J., **K.W. Wong**, L. Lawrence, L. Ziemba, J.H. Flynn, B. Rappenglück, B. Lefer, Nocturnal NO₃ radical chemistry in Houston, TX, Atmos. Environ., 44, 4009-4106, 2010.

CONFERENCE PRESENTATIONS

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, R. Duren, Y.L. Yung, T. Crawford, and S. Sander, Mapping greenhouse gas emissions in Los Angeles: a novel approach, AOS 274 Seminar, Department of Atmospheric Sciences, University of California Los Angeles, Los Angeles, CA, October 2013. (Invited)

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, R. Duren, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions in Los Angeles from Mount Wilson. Laboratory Studies and Modeling group meeting, Jet Propulsion Laboratory, Pasadena, CA, August 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions from a megacity by remote sensing from Mount Wilson. Tropospheric Emission Spectrometer (TES) group meeting, Jet Propulsion Laboratory, Pasadena, CA, July 2013. (Invited)

Wong, K.W., D. Fu, T. Pongetti, E. Kort, S. Newman, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions from a megacity by remote sensing from Mount Wilson. Jet Propulsion Laboratory (JPL) Postdoc Research Day, Pasadena, CA, July 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using an FTS on Mount Wilson. The International Carbon Dioxide Conference (ICDC), Beijing, China, June 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using an FTS on Mount Wilson. The 9th International Workshop on Greenhouse Gas Measurements from Space (IWGGMS), Yokohama, Japan, May 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, C. Miller, Y.L. Yung, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using a Fourier Transform Spectrometer on Mt. Wilson. European Geophysical Union (EGU) Meeting, Vienna, Austria, April 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, E. Kort, A. Andrews, Y. Hsu, R. Duren, C. Miller, Y.L. Yung, and S. Sander, Intercomparison of seasonal and diurnal variations between CLARS FTS and in situ measurements. Orbiting Carbon Observatory (OCO-2) Science Team Meeting, Pasadena, CA, March 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, Y.L. Yung, E. Kort, C. Miller, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using a Fourier Transform Spectrometer on Mt. Wilson. The 30th Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere, Pasadena, CA, March 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, Y.L. Yung, E. Kort, C. Miller, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using a Fourier Transform Spectrometer on Mt. Wilson. The 4th North American Carbon Program (NACP) All-Investigators Meeting, Albuquerque, NM, February 2013.

Wong, K.W., D. Fu, T. Pongetti, S. Newman, Y.L. Yung, E. Kort, C. Miller, and S. Sander, Mapping greenhouse gas emissions in the Los Angeles basin by remote sensing using a Fourier Transform Spectrometer on Mt. Wilson. American Geophysical Union (AGU) Meeting, San Francisco, CA, December 2012.

Wong, K.W., C. Tsai, and J. Stutz, Daytime Nitrous Acid (HONO) Chemistry in the Urban Boundary Layer. Yuk Lunch Seminar, California Institute of Technology, Pasadena, CA, March 2012. (Invited)

Wong, K.W., C. Tsai, O. Pikelnaya, J. Stutz, B. Lefer, C. Haman and J. Flynn., Nitrous acid vertical gradients during SHARP 2009 in Houston, TX. The 28th Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere, Irvine, CA, March 2011.

Wong, K.W., C. Tsai, O. Pikelnaya, J. Stutz, B. Lefer, C. Haman and J. Flynn., Nitrous acid vertical gradients during SHARP 2009 in Houston, TX. American Geophysical Union (AGU) Meeting, San Francisco, CA, December 2010.

Wong, K.W., C. Tsai, and J. Stutz, Nitrous acid (HONO) chemistry in the urban boundary layer. AOS 270 Seminar, Department of Atmospheric and Oceanic Sciences, University of California Los Angeles, Los Angeles, CA, May 2010.

Wong, K.W., C. Tsai, O. Pikelnaya, J. Stutz and D. Fu., HONO vertical gradients during the 2006 TRAMP and the 2009 SHARP experiments in Houston, TX. The 27th Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere, San Diego, CA, February 2010.

Wong, K.W., C. Tsai, O. Pikelnaya, J. Stutz and D. Fu., Vertical concentration profiles of O₃, NO₂, SO₂, HCHO, HONO and NO₃ during SHARP 2009 in Houston, TX. American Meteorological Society (AMS) Meeting, Atlanta, GA, January 2010.

Wong, K.W., H. OH, C. Tsai, O. Pikelnaya, J. Stutz and D. Fu., HONO vertical gradients during the 2006 TRAMP and the 2009 SHARP experiments in Houston, TX. American Geophysical Union (AGU) Meeting, San Francisco, CA, December 2009.

Wong, K.W., J. Stutz and H. OH, Daytime and nighttime vertical gradients of HONO in Houston, TX. The 26th Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere, Riverside, CA, February 2009.

Wong, K.W., J. Stutz and H. OH, Daytime and nighttime vertical gradients of HONO in Houston, TX. American Geophysical Union (AGU) Meeting, San Francisco, CA, December 2008.

Wong, K. W. and J. Stutz., Influence of nocturnal vertical stability on daytime chemistry: a one-dimensional model study. The 25th Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere, Los Angeles, CA, February 2008.

Wong, K. W. and J. Stutz., Influence of nocturnal vertical stability on daytime chemistry: a one-dimensional model study. American Geophysical Union (AGU) Meeting, San Francisco, CA, December 2007.

**PROFESSIONAL
AFFILIATIONS**

American Meteorological Society, member, 2007 – present.

American Geophysical Union, member, 2007 – present.

Chi Epsilon Pi (XEPI) National Meteorological Honor Society, UCLA Chapter,

- Student-Faculty Representative 2010-2011.
- Vice President, 2009-2010.
- Secretary, 2007-2008.

**HONORS
AND
AWARDS**

NASA Postdoctoral Fellowship, Jet Propulsion Laboratory, Pasadena, CA, 2012-present.

University Fellowship, University of California, Los Angeles, CA, 2005 - 2011.

Morris Neiburger Memorial Award in Recognition of Excellence in the Teaching of Atmospheric Sciences, University of California, Los Angeles, CA, November 2007.